



Wayside Exhibit Proposal

Rush Historic Mining District



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Proposed Wayside Exhibits

Num	Subject	Location	Base
1	Rush Historic Mining District	Rush Historic Mining District West Trailhead Parking Lot	Upright
2	Morning Star Mine Loop Trail Introduction	Rush Historic Mining District West Trailhead Parking Lot	Low Profile
3	Livery Stable	Morning Star Mine Loop Trail	Low Profile
4	Silver Smelter	Morning Star Mine Loop Trail	Low Profile
5	Morning Star Mining Community	Morning Star Mine Loop Trail	Low Profile
6	Taylor-Medley Store and U.S. Post Office	Morning Star Mine Loop Trail	Low Profile
7	Blacksmith Shop	Morning Star Mine Loop Trail	Low Profile
8	Chase & Mulholland Store and Mine Office	Morning Star Mine Loop Trail	Low Profile
9	Morning Star Mine Adits	Morning Star Mine Loop Trail	Low Profile
10	Morning Star Mine Processing Mill	Morning Star Mine Loop Trail	Low Profile
11	Morning Star Mine Closing	Morning Star Mine Loop Trail	Low Profile

Buffalo National River

SUBJECT

Rush Historic Mining District

PURPOSE

To briefly describe the significance of the Rush Historic Mining District—why and how it came into existence. To explain how a large community grew and developed here as zinc mining thrived. To identify the Rush Mountain Trail and the Morning Star Mine Loop Trail. To convey regulations and safety information important to the site.

VIEW

An open and forested tailing slope below the Morning Star Mine Processing Mill

ORIENTATION

North

COMMENTS

Park wants to consider building a shelter over this upright exhibit since it is exposed to direct sunlight and will likely fade quickly. HFC will provide standard upright shelter designs. The existing trailhead exhibit and trail direction sign will be eliminated.

POTENTIAL GRAPHICS

Miners, Young Man Behind Shovel is WP Fletcher.jpg, Baptism at Rush Creek, 1916.jpg, and Rush School Class.jpg.



LOCATION

Rush Historic Mining District West Trailhead
Parking Lot
Near the center edge of the parking lot, recessed between the parking lot guard rails

This upright exhibit will be recessed behind the guard rails so visitors are safe from cars and cars can't block access to the exhibit. The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size	36" wide x 48" high
Material	Fiberglass Embedment
Imaging Process	Digital Print
Maps	2D flat map
Special Graphics	Historic photo
Duplicate	

BASE


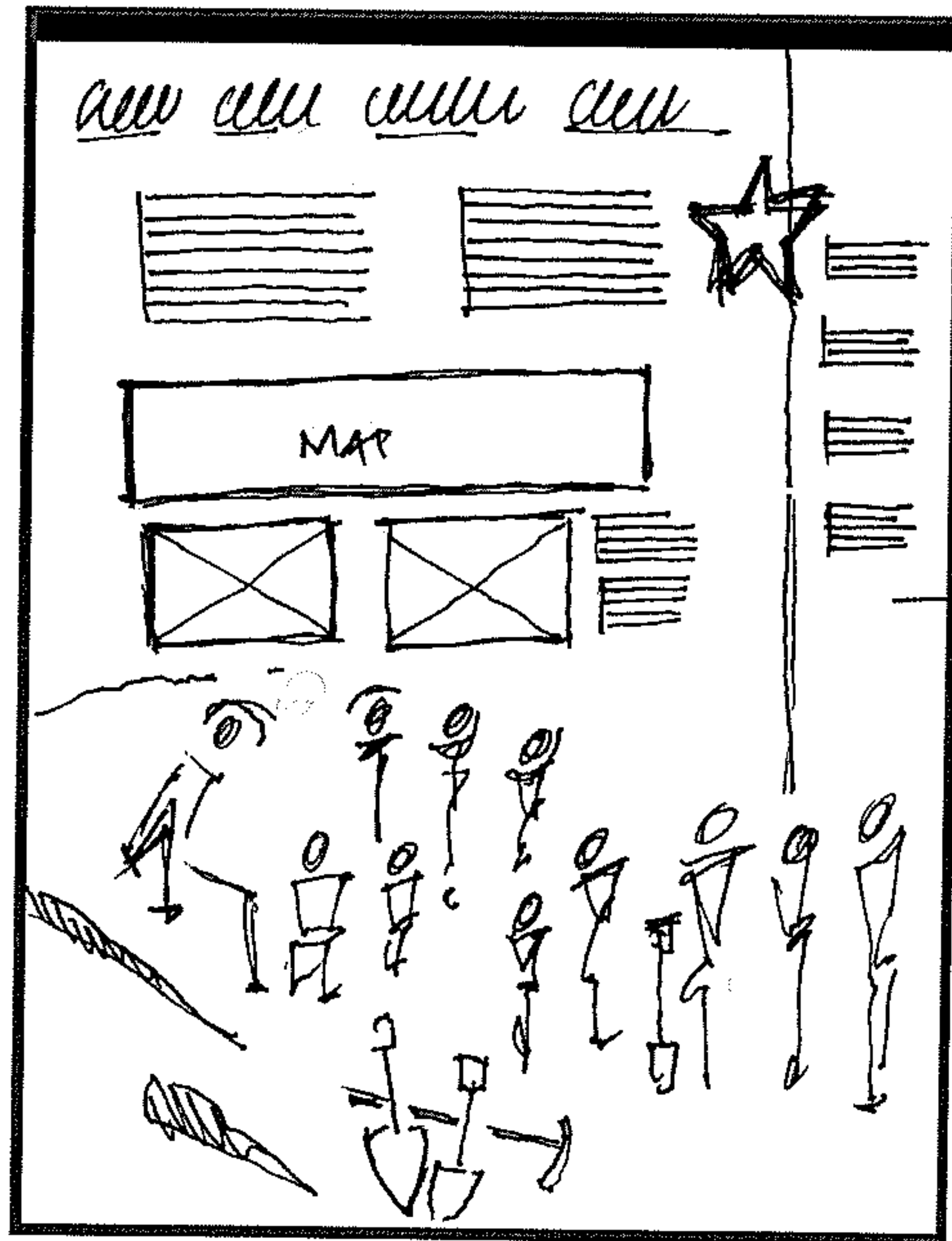
Category	Upright
Style	 Single Upright
Mount	In Ground
Frame Angle	Vertical
Color	Dark Brown
Ancillaries	None

Exhibit Number: 01

Size: 36 x 48



Buffalo National River

SUBJECT

Morning Star Mine Loop Trail Introduction

PURPOSE

To briefly describe the Morning Star Mine as the most significant and prosperous mine within the Rush Historic Mining District. To describe the demand for zinc ore and identify some of the alloy metal products made from it during the early 1900s, such as brass shell casings. To orient visitors to the trail and entice them to take the walk.

VIEW

The Morning Star Mine Trail

ORIENTATION

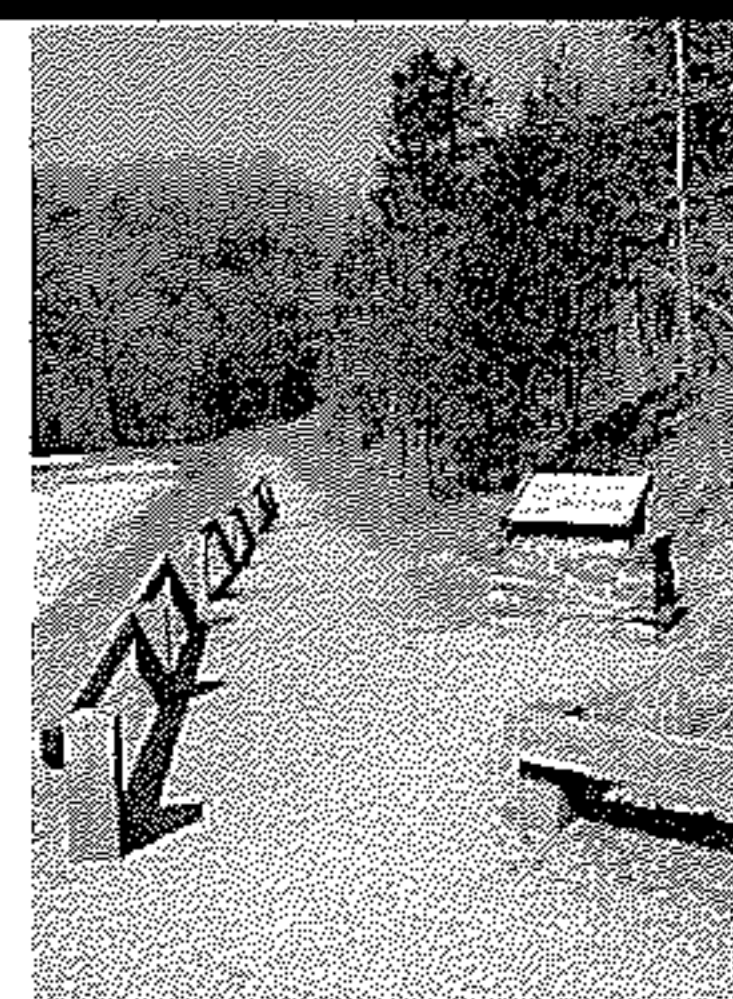
Northwest

COMMENTS

Park wants to consider having a shelter over this low profile exhibit since it is exposed to direct sunlight and will likely fade quickly. If this is done the park should also consider placing a resting bench in the shade of shelter as well. HFC will provide possible shelter designs.

POTENTIAL GRAPHICS

Overview of Rush, 1901.jpg, Morning Star Miners, 1898.jpg, and Rush.012.jpg (Soldier with 12,000 pound zinc ore rock)



LOCATION

Rush Historic Mining District West Trailhead
Parking Lot
At the site of the existing Morning Star Mine
Wayside Exhibit

This exhibit will be masonry or in-ground mounted. If the existing masonry base is used, the first course of stone must be removed to lower the exhibit to meet accessibility requirements. The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size	36" wide x 24" high
Material	Fiberglass Embedment
Imaging Process	Digital Print
Maps	2D flat map
Special Graphics	Historic photo
Duplicate	

BASE


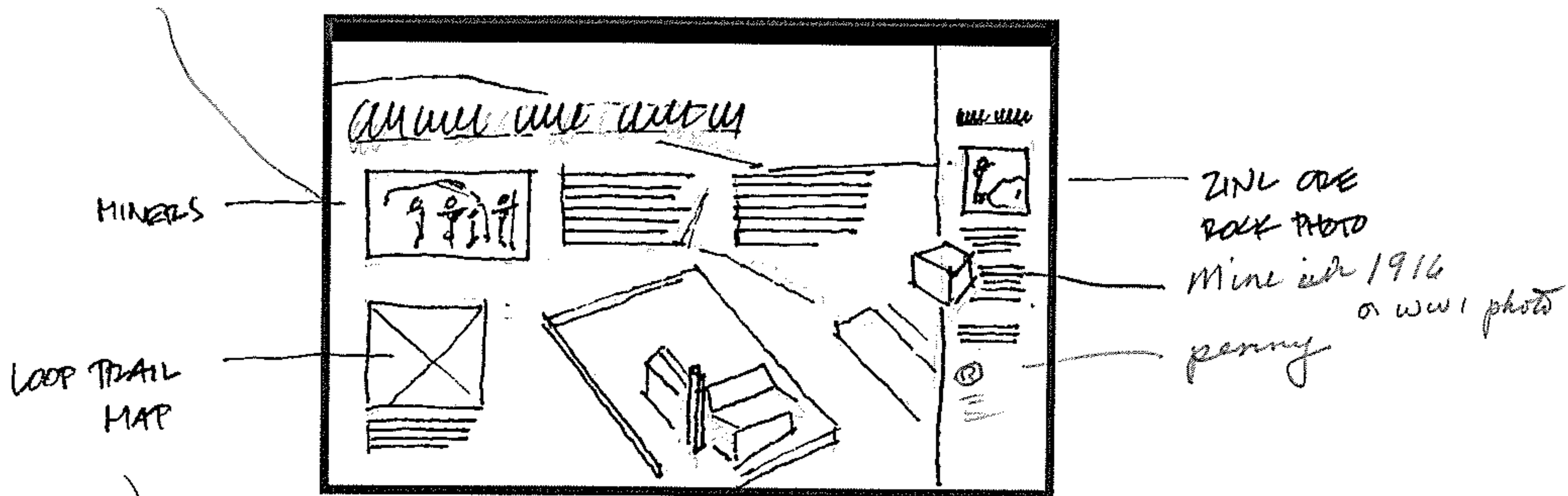
Category	Low Profile
Style	 Cantilevered
Mount	Masonry
Frame Angle	45 degrees
Color	Dark Brown
Ancillaries	None

Exhibit Number: 02

Size: 36 x 24

This might be photo of 1916 mill



Consider putting loop trail over historic photo

Buffalo National River

SUBJECT

Livery Stable

PURPOSE

To identify the site as the Morning Star community's livery stable location. To describe the importance of the livery and what role horses played to the mine and community.



LOCATION

Morning Star Mine Loop Trail

Near the southwest side of the field in line with the Silver Smelter

The exhibit will help define the trail. The park may further delineate the trail by mowing a distinct path through the field. The surface in front of the exhibit shall be firm, stable, and level.

VIEW

The livery stable foundation

ORIENTATION

Northeast

COMMENTS

POTENTIAL GRAPHICS

Morning Star Barn, 1925.jpg

Maybe a little weak
What other content?
Transpiration in the air.

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print


Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

Color Dark Brown

Ancillaries None

Exhibit Number: 03

Size: 24 X 24



add
sheet

SUBJECT

Silver Smelter

PURPOSE

To identify the Morning Star silver smelter. To explain what a smelter is, why this smelter was built, and why it was never used.

VIEW

The silver smelter

ORIENTATION

North

COMMENTS

POTENTIAL GRAPHICS

Silver Smelter, USGS Rush Photos



LOCATION

Morning Star Mine Loop Trail

Near the northwest side of the field in line with the trail continuing into the woods

The exhibit will help define the trail. The park may further delineate the trail by mowing a distinct path through the field. The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print

Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

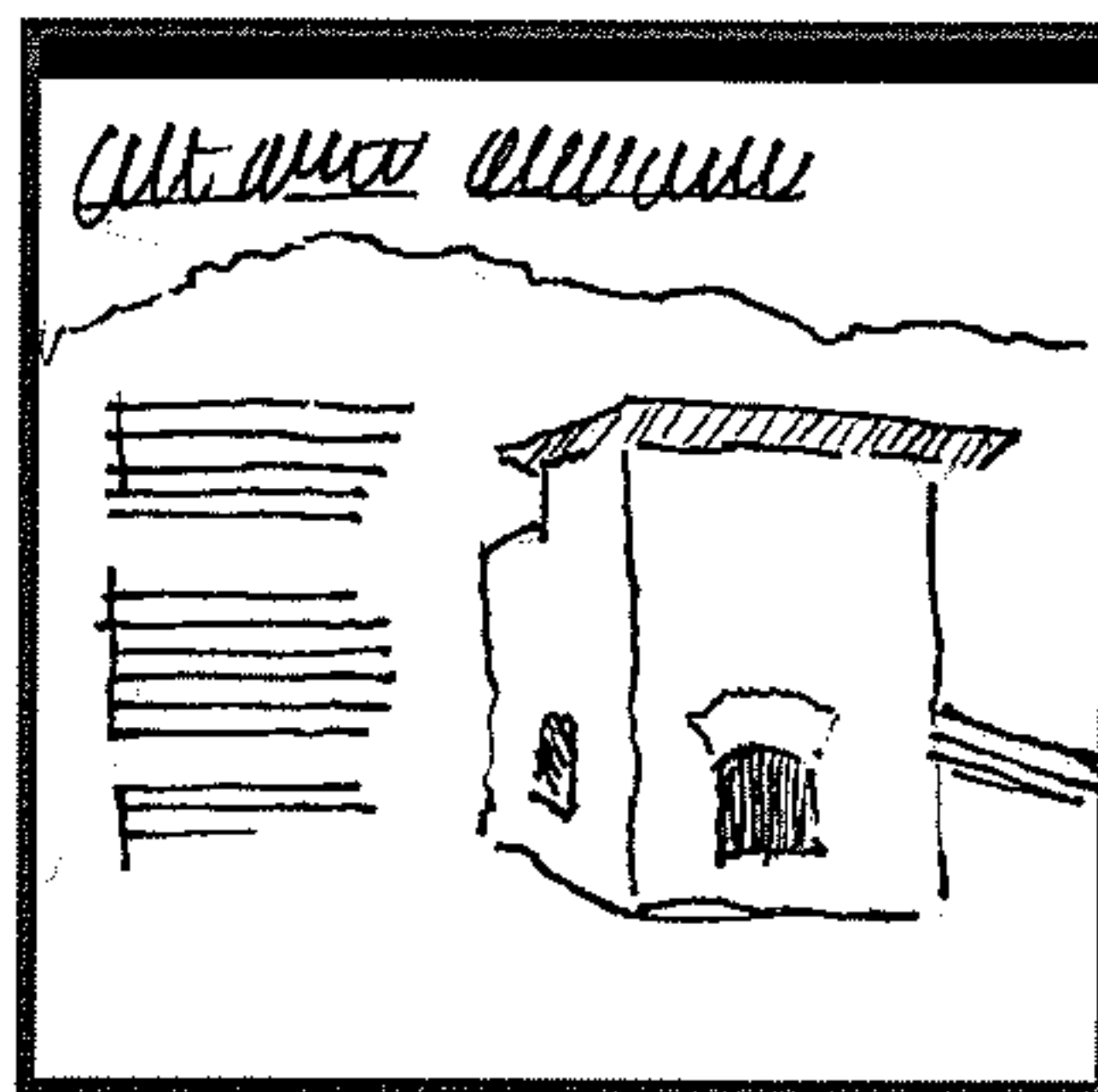
Color Dark Brown

Ancillaries None

Buffalo National River

Exhibit Number: 04

Size: 24 X 24



Buffalo National River

SUBJECT

Morning Star Mining Community

PURPOSE

To identify the site as a former home site flagged by cultivated plants—quince, lilac, and daffodils—that still grow there today. To describe the Morning Star mining community as a place where families lived, played, and worked.



LOCATION

Morning Star Mine Loop Trail

Along the trail that leaves the smelter field, in view of old homestead plantings of quince and lilac

The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size 36" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print

Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

Color Dark Brown

Ancillaries None

VIEW

Low shrubs—quince and lilac—and trees

ORIENTATION

North

COMMENTS

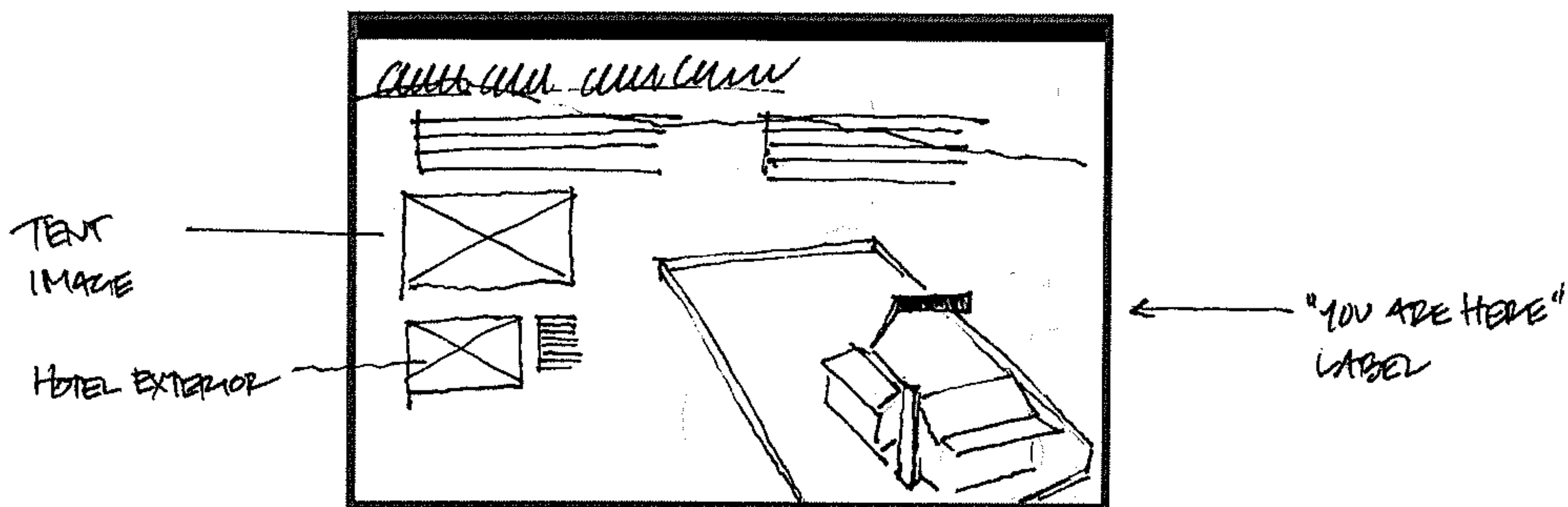
POTENTIAL GRAPHICS

Overview of Rush, 1901.jpg, Morning Star Hotel:Negative Bo6.jpg, Photo 3.jpg

Buffalo National River

Exhibit Number: 05

Size: 36 x 24

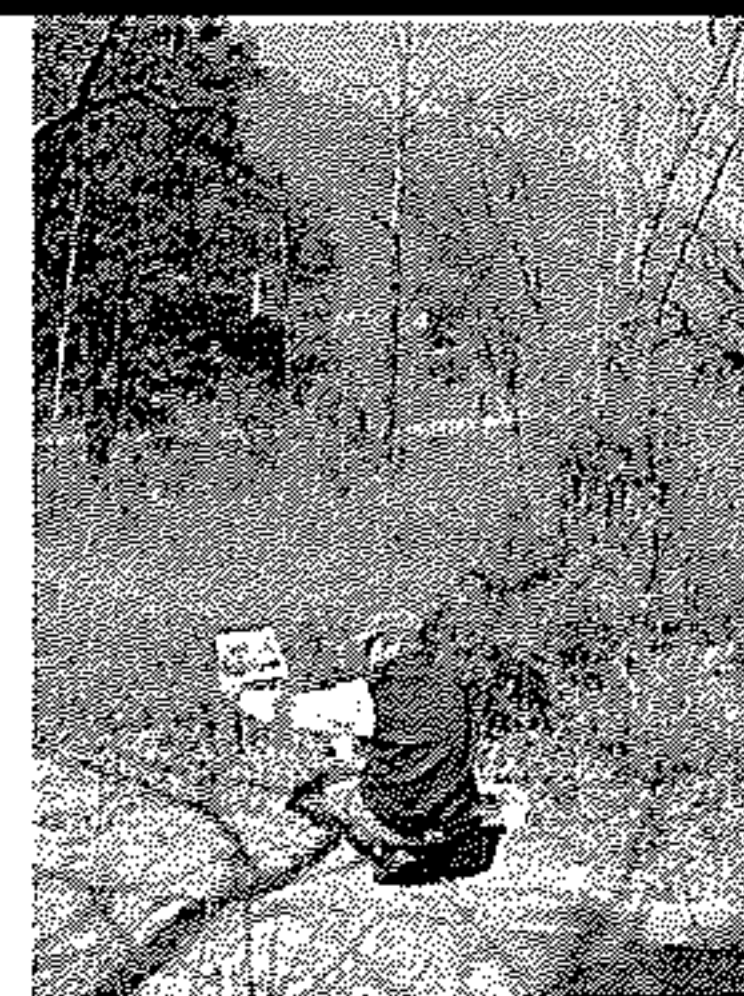


SUBJECT

Taylor-Medley Store and U.S. Post Office

PURPOSE

To identify the Taylor-Medley Store and U.S. Post Office and to describe its role in the Morning Star community. To explain that after the Rush mines closed the store, post office, and a small community remained here until the 1960s.



LOCATION

Morning Star Mine Loop Trail

Along the trail and temporary road leading to the blacksmith shop

Some vista clearing of branches and small trees is necessary so the store and post office remain visible from the exhibit site during the growing season. The surface in front of the exhibit shall be firm, stable, and level.

VIEW

Overgrown field, Rush Creek, Rush road, and a faint look at Taylor-Medley Store and U.S. Post Office

ORIENTATION

West

COMMENTS

POTENTIAL GRAPHICS

Store and Post Office Negative, B31.jpg, Lee Medley.jpg

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print


Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

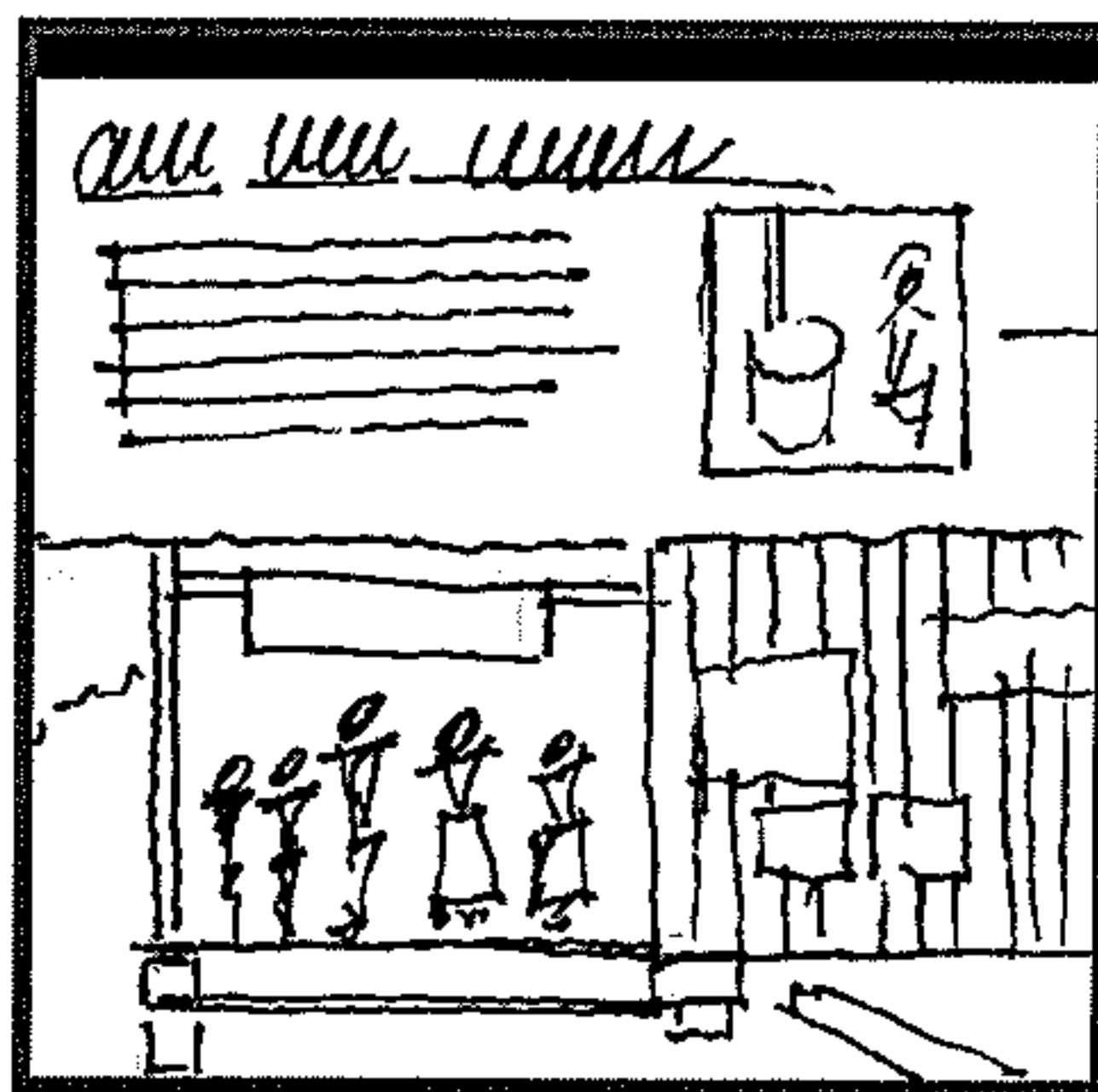
Color Dark Brown

Ancillaries None

Buffalo National River

Exhibit Number: o6

Size: 24 X 24



IN SET: INTERIOR OF
GENERAL STORE

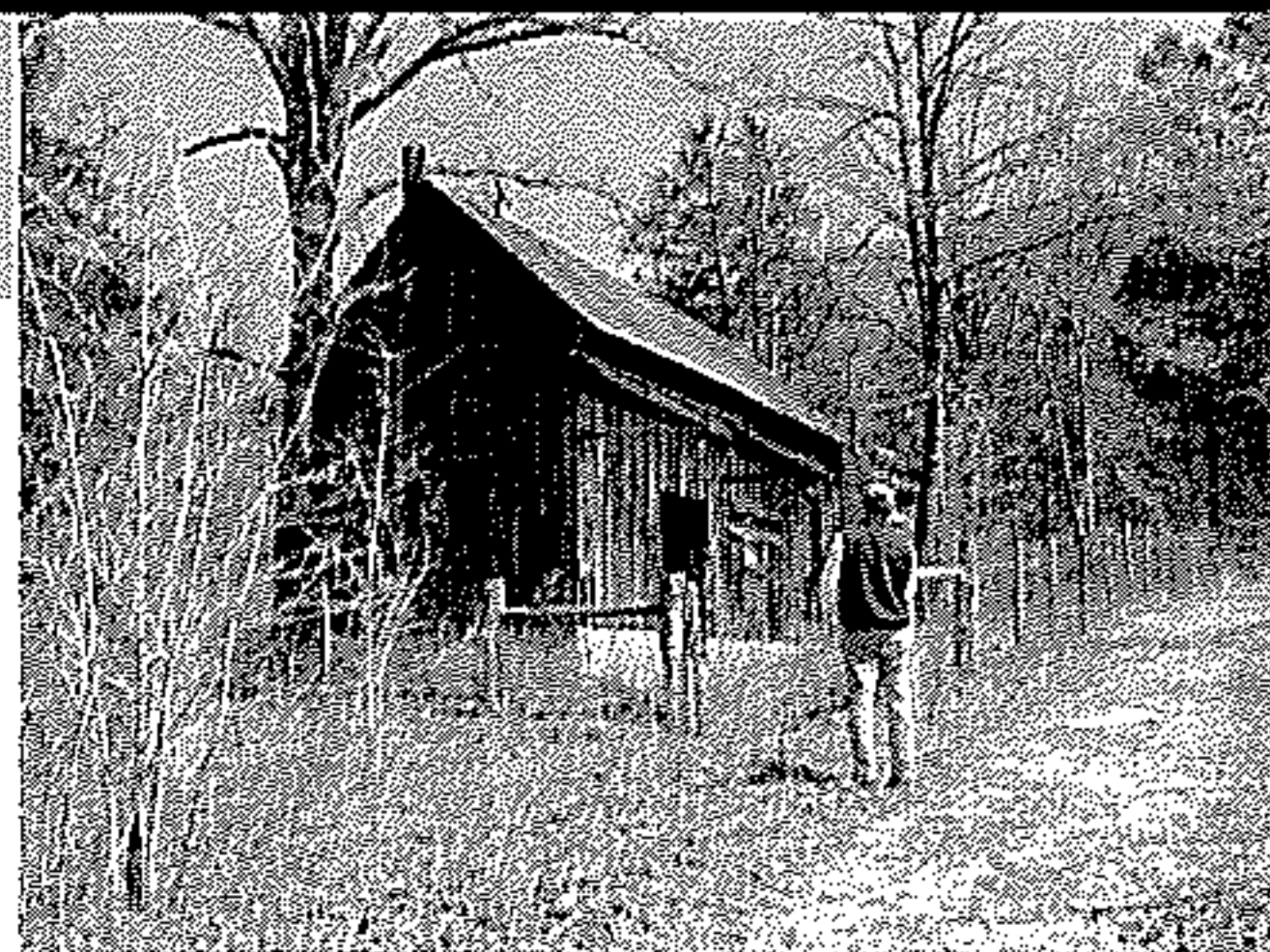
Buffalo National River

SUBJECT

Blacksmith Shop

PURPOSE

To identify the building as being the Morning Star Mine Blacksmith Shop. To describe how important the blacksmith's services and products were to the mine and the community.



LOCATION

Morning Star Mine Loop Trail

Along the trail near the southeast corner of the fence surrounding the blacksmith shop

Exhibit is oriented to the historic photograph on the panel. The surface in front of the exhibit shall be firm, stable, and level.

VIEW

Blacksmith shop

ORIENTATION

West

COMMENTS

POTENTIAL GRAPHICS

Morning Star Blacksmith Shop, 1925.jpg (Bessie Kastning CollectionJ)

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print

Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

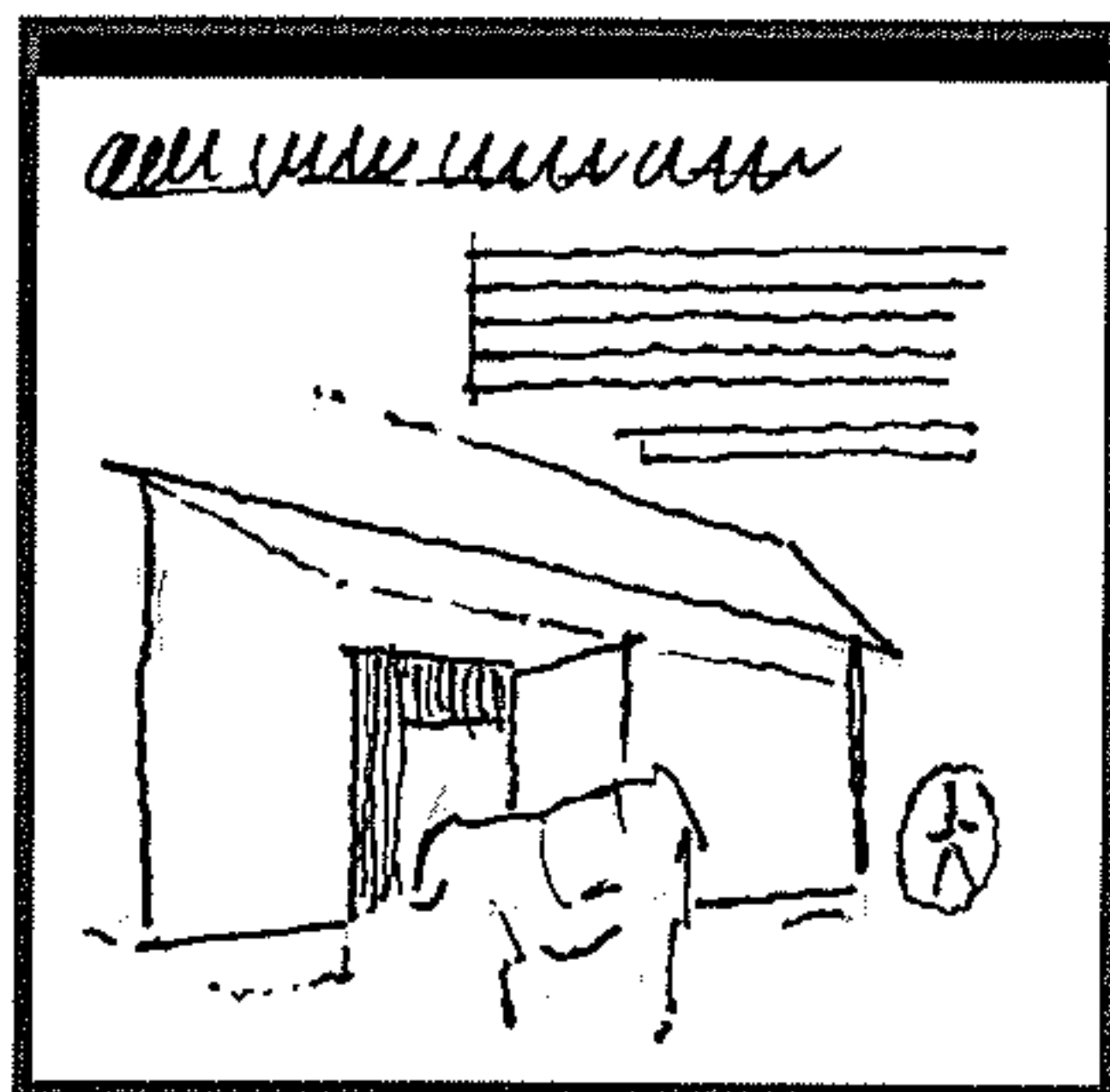
Frame Angle 45 degrees

Color Dark Brown

Ancillaries None

Exhibit Number: 07

Size: 24 X 24



Buffalo National River

SUBJECT

Chase & Mulholland Store and Mine Office

PURPOSE

To identify the sites of the Chase and Mulholland Store and the Morning Star Mine Office, and to describe their role for the mine and the community.



LOCATION

Morning Star Mine Loop Trail

Along the south edge of the trail to the right of a stand of staghorn sumac

Exhibit is oriented to the historic photograph on the panel. The surface in front of the exhibit shall be firm, stable, and level.

VIEW

Overgrown foundations of the store and office

ORIENTATION

Southwest

COMMENTS

POTENTIAL GRAPHICS

Chase and Mulholland's Store & M.S. Mine Office, 1915.jpg
(Bessie Kastning Collection)

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print

Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

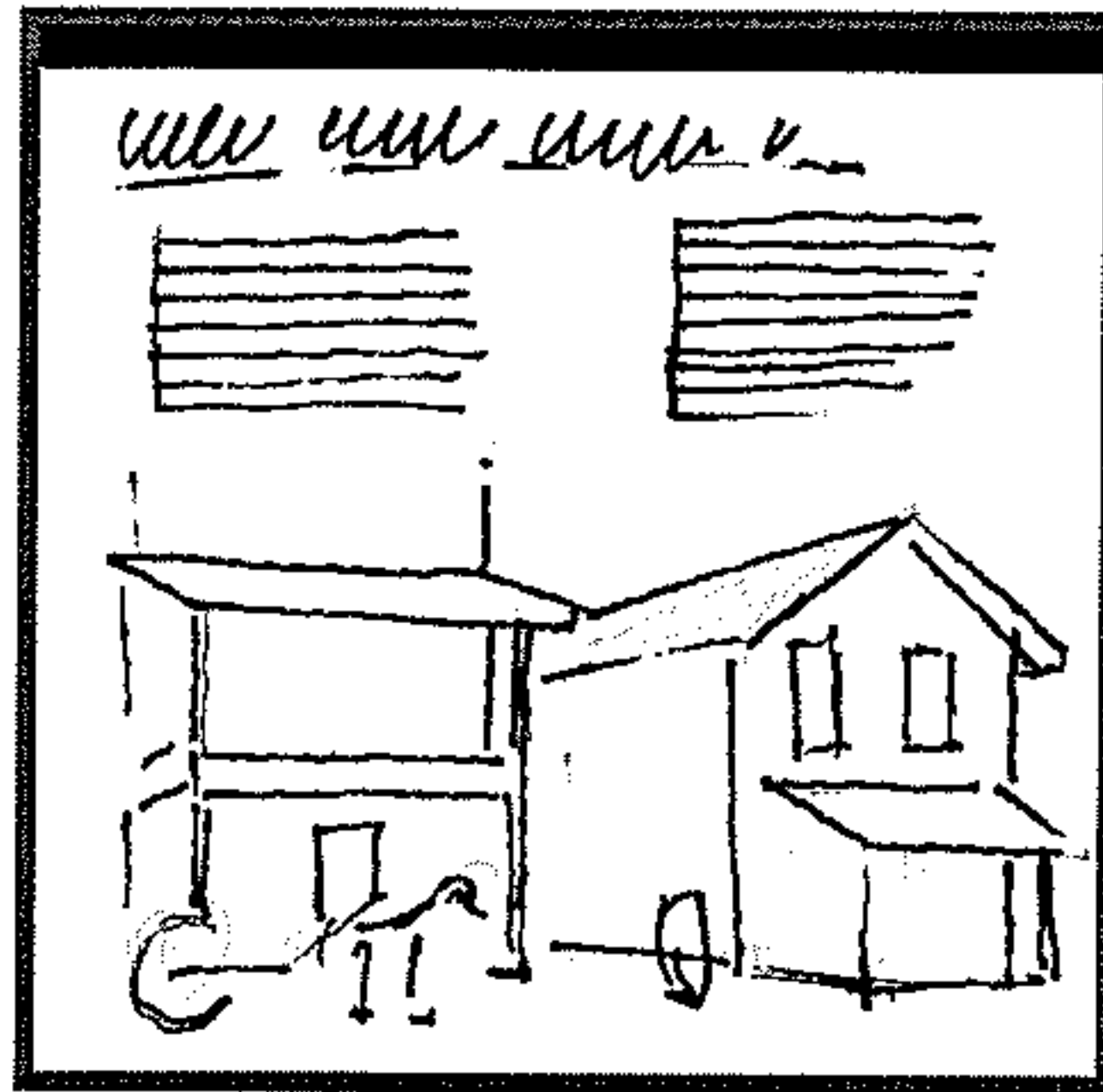
Color Dark Brown

Ancillaries None

Buffalo National River

Exhibit Number: o8

Size: 24 X 24



Buffalo National River

SUBJECT

Morning Star Mine Adits

PURPOSE

To identify the general locations of the Morning Star Mine adits. To explain that the mines are fenced off and cannot be entered; they are unsafe and today the protected homes of bats. To describe the difficulty and danger miners faced in extracting the ore. To identify the trail distances to the mines and for hiking the length of Rush Mountain Trail.

VIEW

Rush Mountain Trail and, to the distant right, the mountain ridge where the Morning Star Mine adits are located

ORIENTATION

North-Northeast

COMMENTS

This exhibit will replace the trail direction sign presently at the site.

POTENTIAL GRAPHICS

Morning Star Mine, 1925.jpg (Bessie Kastning Collection),
Morning Star Miners, 1898.jpg (Bessie Kastning Collection),
present day photograph of fenced-off mines with bat
accessible grates



LOCATION

Morning Star Mine Loop Trail

At the trail junction of the Morning Star Mine
Loop Trail with the Rush Mountain Trail


The surface in front of the exhibit shall be firm,
stable, and level.

PANEL

Panel Size	36" wide x 24" high
Material	Fiberglass Embedment
Imaging Process	Digital Print
Maps	None
Special Graphics	Historic photo

Duplicate

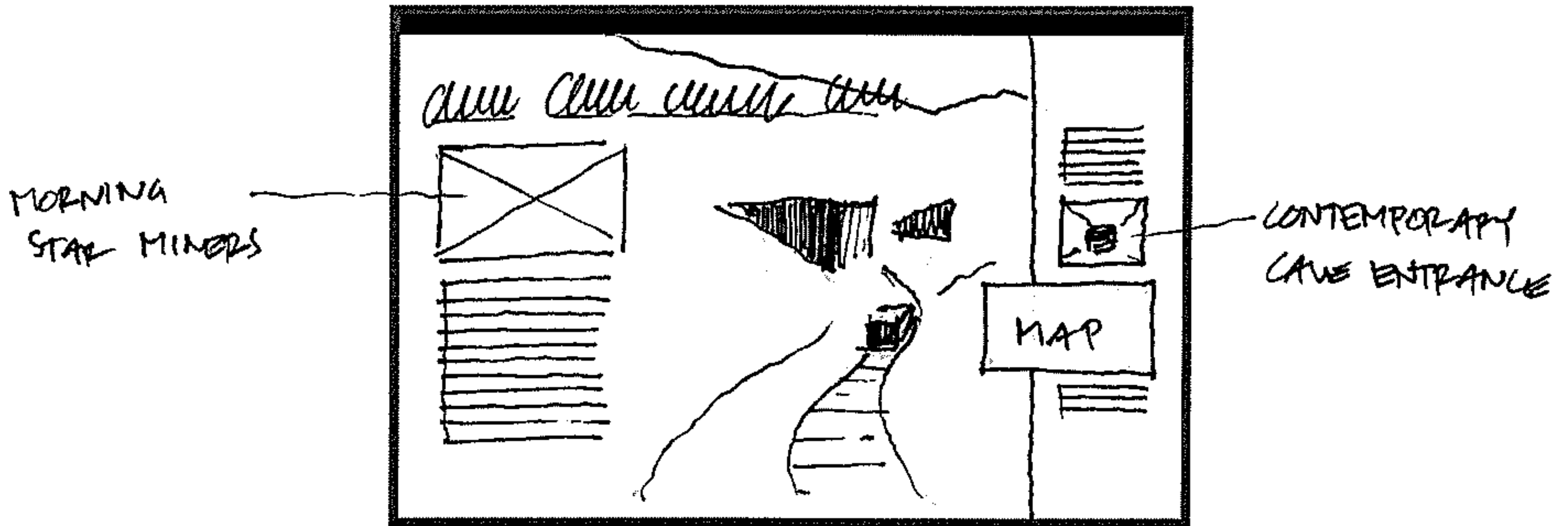
BASE

Category	Low Profile
Style	 Cantilevered
Mount	In Ground
Frame Angle	45 degrees
Color	Dark Brown
Ancillaries	None

Buffalo National River

Exhibit Number: 09

Size: 36 x 24



Buffalo National River

SUBJECT

Morning Star Mine Processing Mill

PURPOSE

To identify the Morning Star Mine processing mill and discourage visitors from climbing on or defacing the mill ruins. To illustrate by direct labeling on the historic photograph how zinc ore was extracted from the mines; loaded into tram cars; railed to the hopper mill, where the ore was sorted; and then railed along the tram line to the mill, where the ore was processed. To explain briefly the zinc ore milling process.

VIEW

Processing mill ruins

ORIENTATION

East

COMMENTS

The park will consider putting a split rail fence around the ruins to improve cultural resource protection of the site.

POTENTIAL GRAPHICS

USGS Rush Photo of Morning Star processing mill, Men in processing mill, Photo 7.jpg, (Harley Myles Collection)



LOCATION

Morning Star Mine Loop Trail

At the edge of the loop trail and just left of the short path leading to the processing mill

The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size	36" wide x 24" high
Material	Fiberglass Embedment
Imaging Process	Digital Print
Maps	None
Special Graphics	Historic photo
Duplicate	

BASE


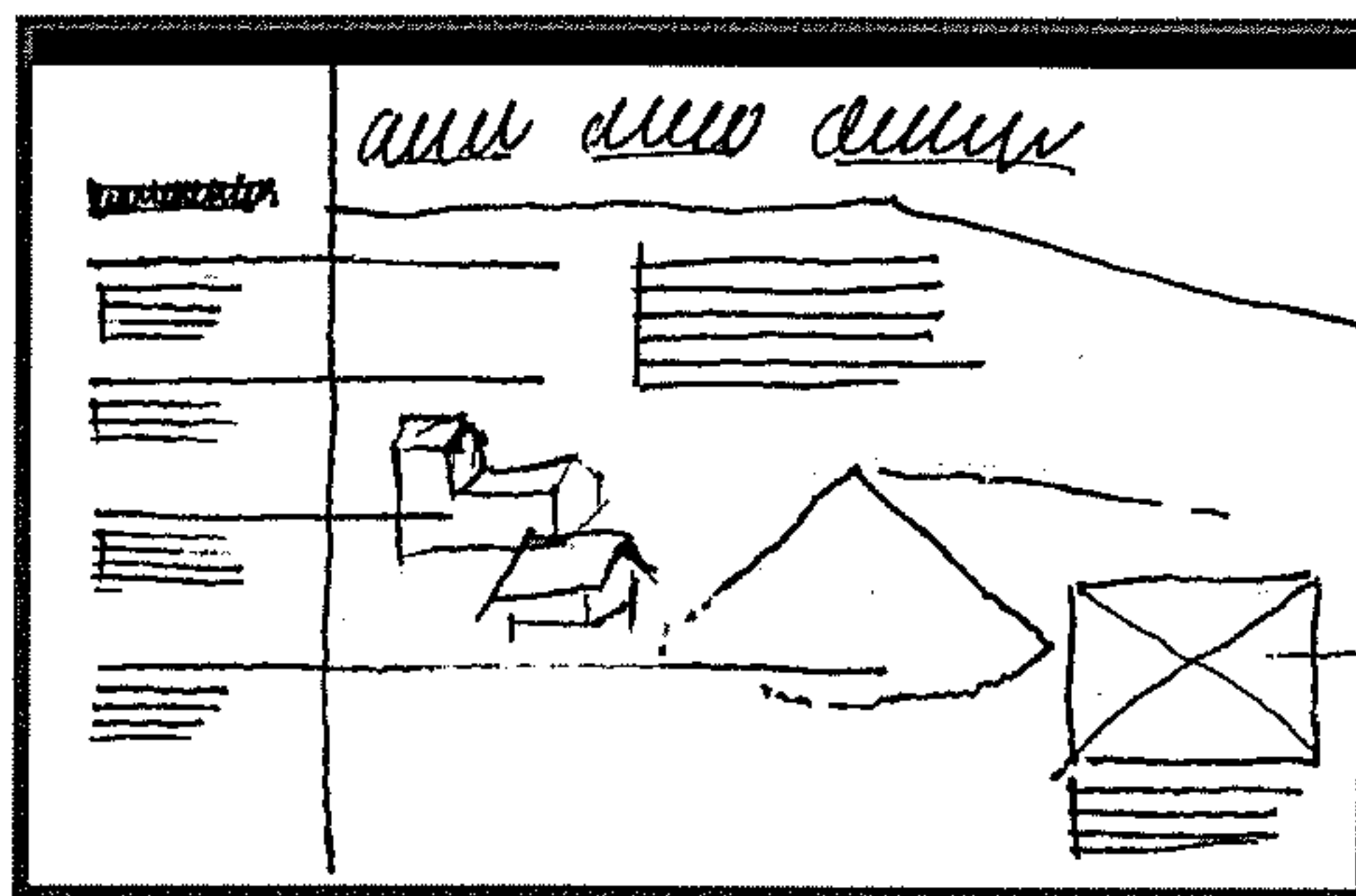
Category	Low Profile
Style	 Cantilevered
Mount	In Ground
Frame Angle	45 degrees
Color	Dark Brown
Ancillaries	None

Exhibit Number: 10

Size: 36 x 24



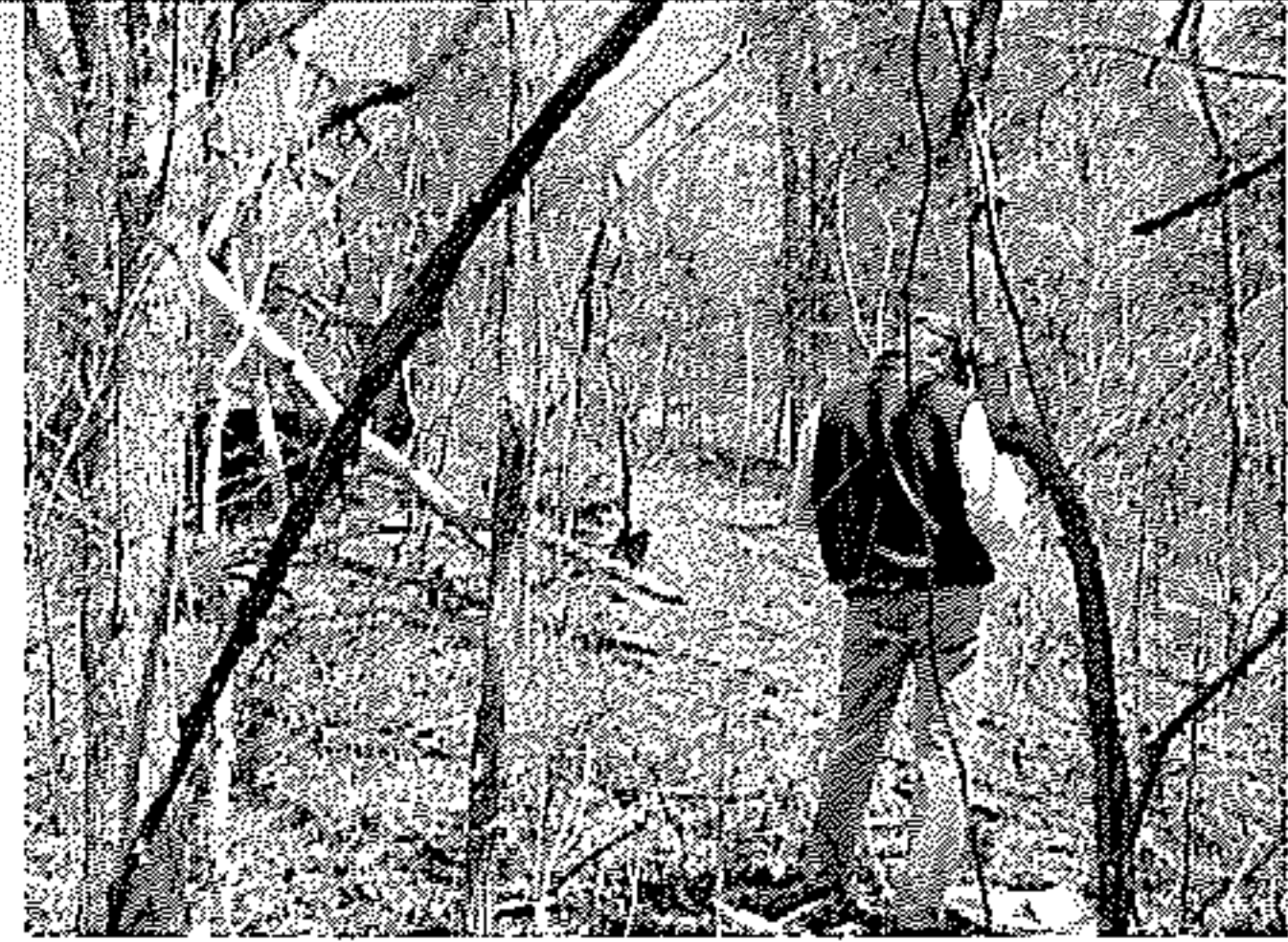
INSET:
MEN IN HILL

SUBJECT

Morning Star Mine Closing

PURPOSE

To explain why and when the Morning Star Mine closed. To explain that although the mine ruins are melding back into the forest landscape their histories and memories are being preserved and protected by Buffalo National River.



LOCATION

Morning Star Mine Loop Trail

Along the proposed return section of the loop trail, downslope from the mill's smokestack and stone wall

The surface in front of the exhibit shall be firm, stable, and level.

PANEL

Panel Size 24" wide x 24" high

Material Fiberglass Embedment

Imaging Process Digital Print

Maps None

Special Graphics Historic photo

Duplicate

BASE

Category Low Profile

Style  Cantilevered

Mount In Ground

Frame Angle 45 degrees

Color Dark Brown

Ancillaries None

VIEW

Processing mill ruins

ORIENTATION

North-Northeast

COMMENTS

Park will consider eliminating a section of the existing loop trail, from the trailhead parking lot to the mill. This section is steep, erodes regularly, and competes with the intended interpretive experience of the trail. The proposed new trail section would keep visitors out of the mill ruins and take them back to the beginning of the interpretive loop trail, via a more gradual grade and within the shade of the forest.

POTENTIAL GRAPHICS

Morning Star Mill, 1915.jpg

Exhibit Number: II

Size: 24 X 24

